CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.09/CC/CEMENT/2014-15

Date: 04.08.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. C. Chethan,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of concrete steps to Suvarna Mahothsava Ground in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VYP/(WO)/345/2014-15 Dated: 01.08.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Note:

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Job No.: CTCE/BBMP/W.No.09/CC/SAND/2014-15 : 04.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Chethan,** Contractor, Bangalore.

Name of Work : Construction of concrete steps to Suvarna Mahothsava Ground in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VYP/(WO)/345/2014-15 Dated: 01.08.2014

Date of Testing : 04.08.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	4.45	4.45	95.6	90-100
2.36	294	14.70	19.15	80.9	75-100
1.18	456	22.80	41.95	58.1	55-90
600 Micron	415	20.75	62.70	37.3	35-59
300 Micron	512	25.60	88.30	11.7	8-30
150 Micron	123	6.15	94.45	5.5	0-10

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Job No.: CTCE/BBMP/W.No.09/CC/AGG/2014-15 : 04.08.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. C. Chethan,** Contractor, Bangalore.

Name of Work : Construction of concrete steps to Suvarna Mahothsava Ground in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VYP/(WO)/345/2014-15 Dated: 01.08.2014

Date of Testing : 04.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25200**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	956	3.79	3.79	96.21	95-100
20	16247	64.47	68.27	31.73	30-70
10	5123	20.33	88.60	11.40	10-35
4.75	2575	10.22	98.81	1.19	0-5

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Job No.: CTCE/BBMP/W.No.09/CC/STEEL/2014-15 04.08.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. C. Chethan,** Contractor, Bangalore.
Name of the work	:	Construction of concrete steps to Suvarna Mahothsava Ground in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VYP/(WO)/345/2014-15 Dated: 01.08.2014
Date of Test	:	04.08.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	517	551	12.95	O.K	O.K

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Job No.: CTCE/BBMP/W.No.09/CC/CUBE/2014-15

10.09.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. C. Chethan,** Contractor, Bangalore.
Name of the work	: Construction of concrete steps to Suvarna Mahothsava Ground in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VYP/(WO)/345/2014-15 Dated: 01.08.2014
Sample ID	: Steps Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.08.2014	10.09.2014	8.109	487.8	21.68
2	13.08.2014	10.09.2014	8.215	506.9	22.53
3	13.08.2014	10.09.2014	8.326	523.7	23.28

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